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DATE June 1965

CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE DIVISION
PHOTOGRAPHIC INTELLIGENCE REPORT

22d CPSU CONGRESS PETROLEUM REFINERY
BAKU, USSR

CIA/PIR-5016/65



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The CIA Photo Intelligence Division has replaced the informal Inter-Office Memorandum with this new series of CIA Photographic Intelligence Reports.

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22d CPSU CONGRESS PETROLEUM REFINERY
BAKU, USSR

1. The 22d CPSU Congress Petroleum Refinery, which was formed by the consolidation of the Stalin and Vano Sturua Petroleum Refineries, is located along the waterfront in the eastern sector of the city of Baku, USSR. The geographic coordinates of the approximate center of the refinery are 40 22 30N - 49 54 10E and its orientation is E/W.

The refinery is irregular in shape with maximum dimensions of approximately 6,200 feet by 3,300 feet and covers an area of approximately 14,800,000 square feet.

The refinery appears to be complete and only a very limited amount of space exists within or adjacent to the refinery for further expansion or the construction of additional units. A comparison of the most recent photographic coverage of [] over the refinery with earlier [] coverage, and with [] reveals that most of the changes that have occurred involve either the complete or partial dismantling of shell stills. Details concerning these and other changes are discussed in part b of section 2.

2. The limits of the 22d GPSU Congress Petroleum Refinery and the outlines of individual sections within the refinery are shown on Figure 6 of this report.

a. Identification and analysis of the various sections is discussed in the following annotation key; the numbers on Figure 6 correspond to the following numbers:

- (1) POL tank storage area
- (2) Unidentified refining area with a relatively large unit, laydown tanks, possible control house, cooling towers, and POL tank storage
- (3) POL tank storage area, also including a possible compressor building and water treating facilities
- (4) Probable warehousing and maintenance shops area
- (5) POL tank storage area
- (6) Probable crude oil distillation area containing a shell still bank, several probable compressor buildings, several pipe furnaces, a small control building, cooling towers, and associated POL tanks and laydown tanks
- (7) Distillation area with a pipe furnace, distillation unit, cooling towers, water treating pond, and POL tank storage

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- (8) Warehousing and open material storage area
- (9) Probable distillation area with two pipe furnaces, two probable distillation units, a probable control house, pump house, water treating pond, and POL tank storage
- (10) POL tank storage area
- (11) Area with a processing building, several administration/ laboratory-type buildings, a number of warehouse/maintenance type buildings, POL tank storage, and open storage
- (12) Distillation area with a shell still bank, and two distillation units each consisting of two pipe furnaces, a fractionating column, pump house, control building, and probable oil treating tanks
- (13) Area with possible pump house, maintenance building, and water treating pond
- (14) Area with two probable dismantled shell still banks and POL tank storage
- (15) Administration area, warehouses, repair shops, POL tank storage, and open material storage
- (16) Water treating area
- (17) Probable distillation area with six pipe furnaces, three distillation units, several compressor buildings, and cooling towers
- (18) Probable distillation area containing four pipe furnaces, two distillation units, probable cooling towers, and probable control building
- (19) POL tank storage and open materiel storage area
- (20) Processing area with a probable cracking unit, and associated control house, cooling towers, water treating facilities, and POL tank storage; a probable administration building; and an unidentified refining unit located in the northern section of the area consisting of two small pipe furnaces, possible fractionating column, and several associated buildings
- (21) Waste disposal area
- (22) Distillation area with two probable combination units, cooling towers, several probable control houses and compressor buildings, one large building, and a number of smaller buildings
- (23) Probable distillation area with a shell still battery and two unidentified refining units: (a) one unit is located in the NE corner of the area and consists of a large stack and a two probable fractionating columns and (b) another unit is located in the SW corner and consists of a large tower situated between a gable and a flat roofed building with an adjacent flare tower

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- (24) Area with POL tank storage, water treating ponds, and several small buildings
- (25) Railcar loading and unloading facilities and POL tank storage area
- (26) Distillation area with five distillation units: four of these units consist of a single pipe furnace, a fractionating column, and associated laydown tanks; the fifth unit consists of two pipe furnaces and a fractionating column
- (27) Area with probable dismantled shell still and a number of warehouse type buildings
- (28) Storage area consisting of POL tank storage, a number of warehouse type buildings, and open material storage
- (29) Processing area consisting of an unidentified refining unit with three towers and adjacent to a stack located in the eastern section of the area, an unidentified processing unit with three rows of tanks or towers associated with a large, well ventilated building and adjacent to four pipe furnaces, and also including POL tanks, a number of processing/warehouse buildings and possible repair shops
- (30) Area with POL tank storage, water treating ponds, and several towers
- (31) Probable lube oil refining area containing a solvent extraction unit, probable deasphalting facilities, possible dewaxing facilities, a possible wax packaging facility, POL tank storage, and a number of processing and warehouse type buildings

b. Change and construction activity at the refinery from [] though [] include the following (annotation numbers refer to Figure 6):

- (1) Since [] shell stills were partially dismantled in the areas indicated by Annotations 14 and 27 and completely dismantled in Annotations 1, 2, 7, 19, 29 and 31.
- (2) In the northern section of Annotation 30, the possible wax packaging facility, several processing and warehouse type buildings, and additional POL tanks were constructed since [] and probably completed by []
- (3) Additional space within the refinery has been created by dumping fill along the waterfront. Annotation 21 and the southwest section of Annotation 3 are new areas provided by this means. In Annotation 21 several tanks and waste disposal ponds have been constructed since [] while in the new section of Annotation 3, water treating facilities, a possible compressor building, and five POL tanks have been constructed and completed since []

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(4) A new POL tank storage area was constructed in the northern-most section of Annotation 29 between

3. The refinery is served by the docking facilities of Baku Port, by road, rail, and probably by pipeline.

4. The refinery appears to have been operating throughout the period of photographic coverage as indicated by steam coming from cooling towers, smoke coming from a number of refining units and the flare towers, and by the presence of tankers at the docking facilities.

5. An annotated map and photo (Figures 7 and 8) have been included in this report to show the location of and area covered by each of the petroleum refineries in the Baku area. The outlined areas, designated by letter, correspond to the following petroleum refineries:

- A. Budennyi Neftegaz Petroleum Refinery
- B. Andreyev Petroleum Refinery
- C. Dzhaparidze Petroleum Refinery
- D. 22d CPSU Congress Petroleum Refinery
- E. Novo Baku Petroleum Refinery
- F. Karayev Petroleum Refinery
- G. Kara-Chukhur Probable Gas Stabilization Plant

6. All measurements have been made by the CIA/PID/IB Project Analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

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MAPS OR CHARTS

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REQUIREMENT

CIA. C-RR5-82,467

CIA/PID PROJECT

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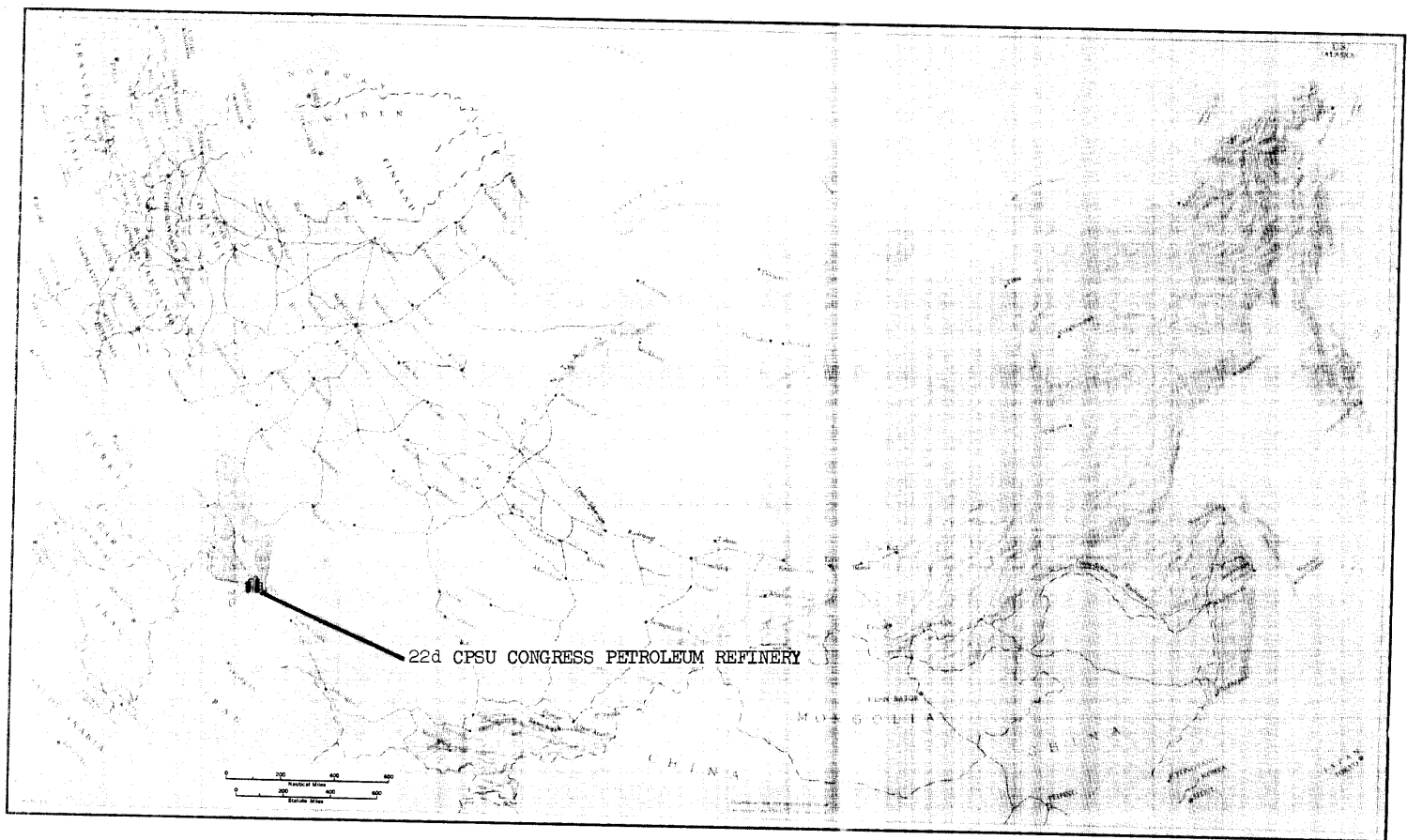
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FIGURE 1

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FIGURE 3

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22d CPSU CONGRESS
PETROLEUM REFINERY
Baku, USSR
40 22 30N - 49 54 10E

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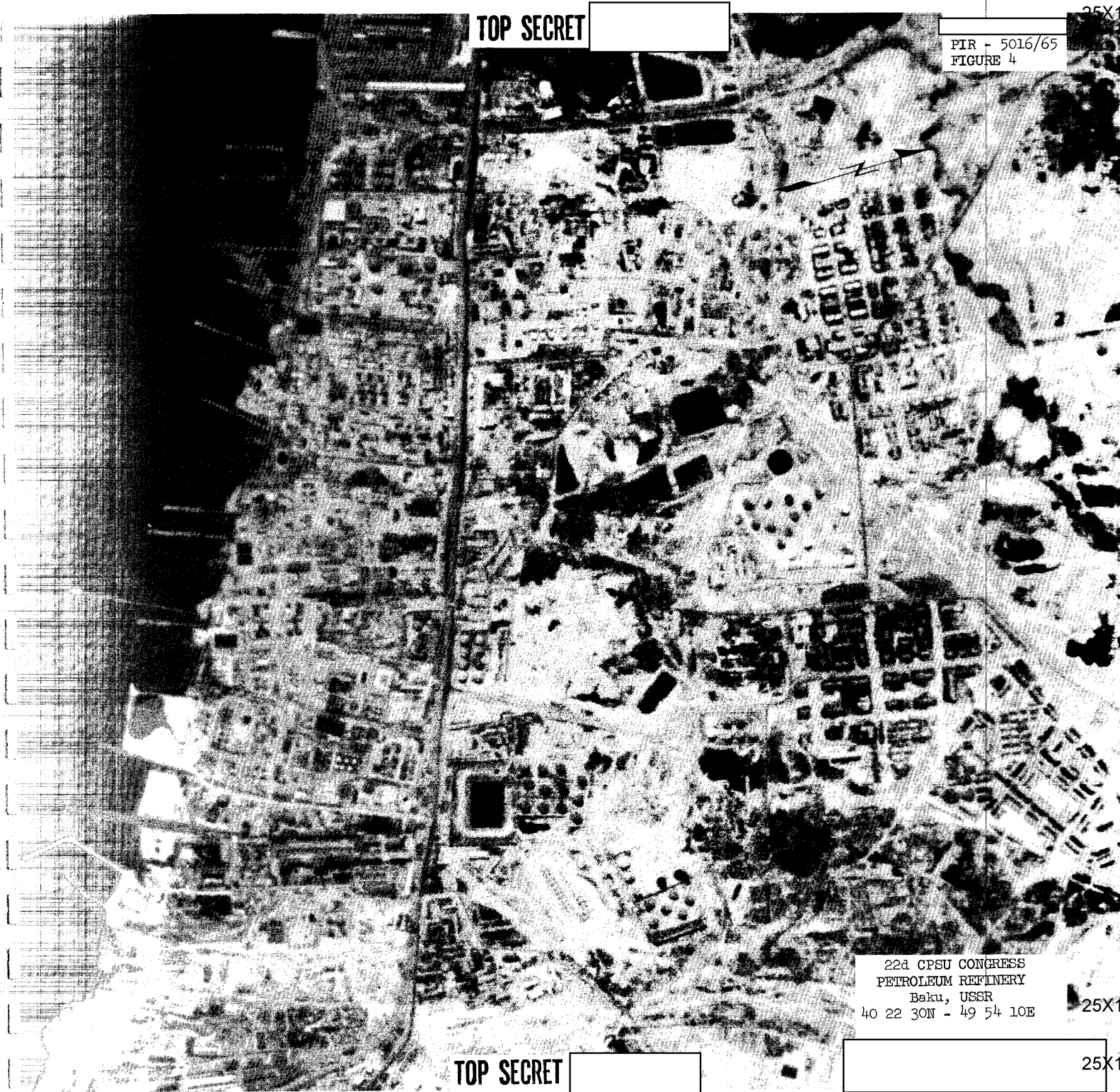
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FIGURE 4

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22d CPSU CONGRESS
PETROLEUM REFINERY
Baku, USSR
40 22 30N - 49 54 10E

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FIGURE 5

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22d CPSU CONGRESS
PETROLEUM REFINERY
Baku, USSR
40 22 30N - 49 54 10E

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FIGURE 6

22d CPSU CONGRESS
PETROLEUM REFINERY
Baku, USSR
40 22 30N - 49 54 10E

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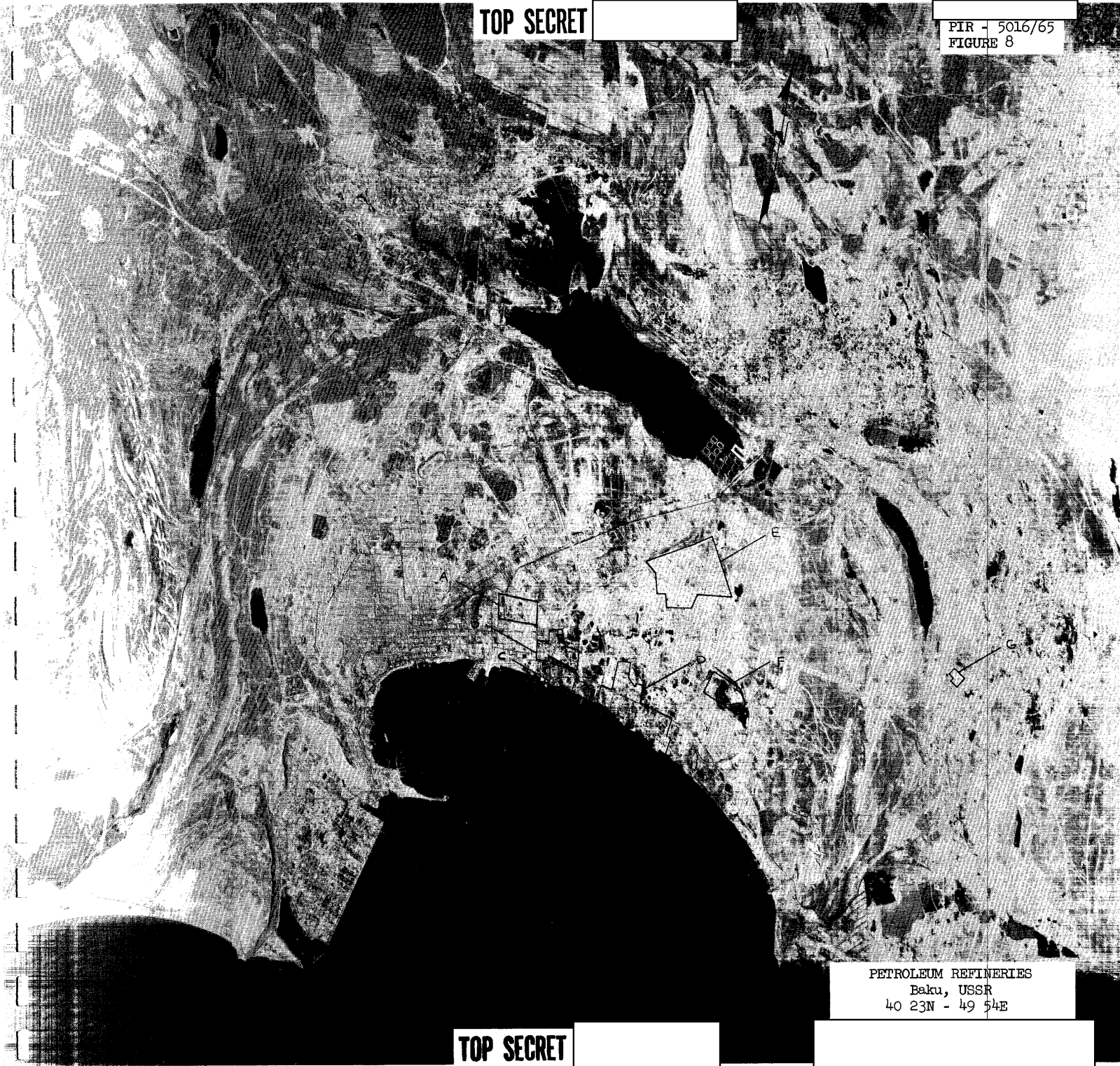
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FIGURE 8



PETROLEUM REFINERIES
Baku, USSR
40 23N - 49 54E

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